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Arix Bioscience is a global life sciences venture capital company

Enabling public equity investors to realise superior long term returns through diversified investments and company creation in game changing life science technologies



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- Interim Update
- Portfolio Update
- Company Strategy
- Outlook
- Appendices



Interim Update

Interim results

30 June 2018 highlights



Financial highlights

- £35.6m net positive revaluation of core portfolio*
- Successful £87m fundraise by the Company from new and existing investors
- Gross portfolio value increased by 71% to £121.8m
- £14.4m of investments made into existing portfolio in the period and a further £4.2m in July 2018
- Net Asset Value of £257.6m; an increase of 76%
- £29.3m profit before tax in the six month period to 30 June 2018

Operational highlights

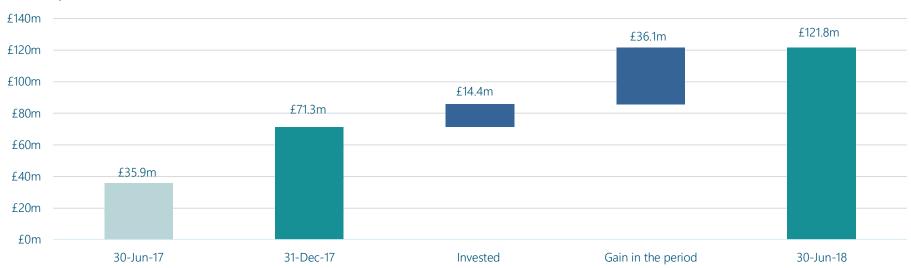
- Strategic agreements signed by the Company with new investors Fosun International and Ipsen
- Positive clinical development within the Group; 15 clinical trials across the portfolio
- New strategic agreement signed with Fred Hutchinson Cancer Research Center and Evotec AG;
 further expanding extensive deal sourcing capabilities
- Seed investing activity commenced alongside academic partner

Performance overview

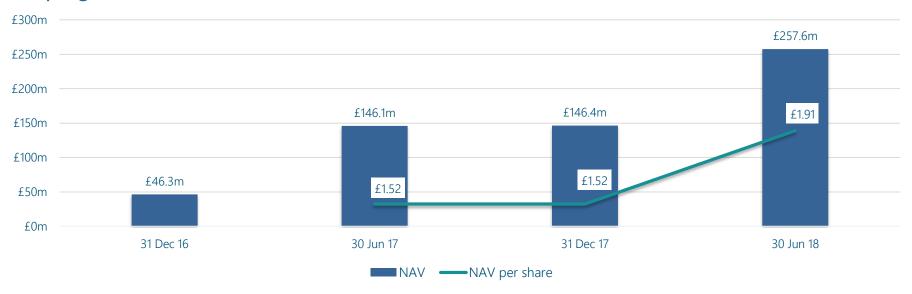
ARIX \$\mathcal{G}\$ BIOSCIENCE PIC

Strong delivery in HY2018

Gross portfolio value



NAV progression



Core portfolio

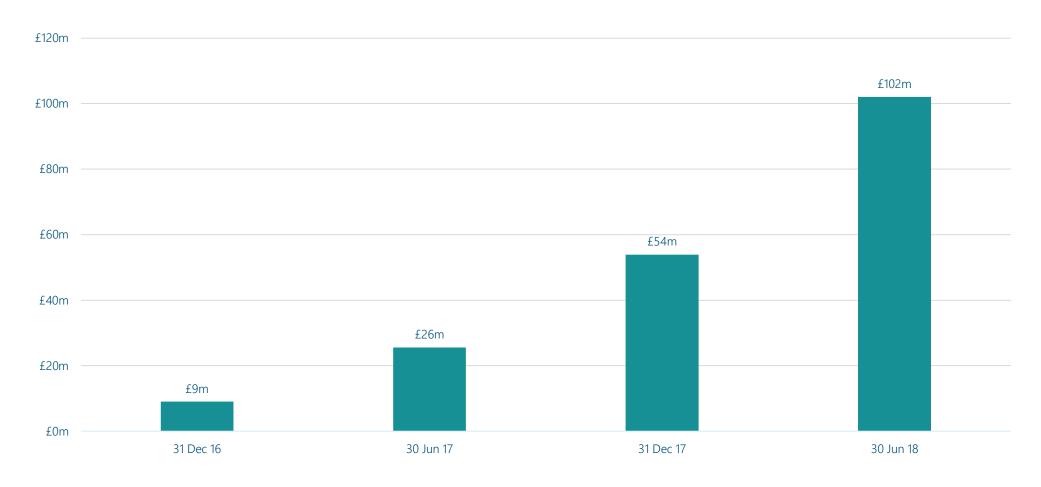


Fast pace of growth in core portfolio driving value

13 Group Businesses with a total value of £102m; representing 84% of Gross Portfolio Value

Building stakes as milestones are met to accelerate growth

Select new holdings added each year in line with strategy



Significant progress since formation





December 2016

NAV £46m

Gross Portfolio value of £17m

2 clinical trials

Core portfolio of 5 companies

December 2017

NAV £146m

Gross Portfolio value £71m

12 clinical trials

Core portfolio of 13 companies

June 2018

NAV £258m

Gross portfolio value £122m

15 clinical trials

Core portfolio of 13 companies plus seed investment

£250m raised to date

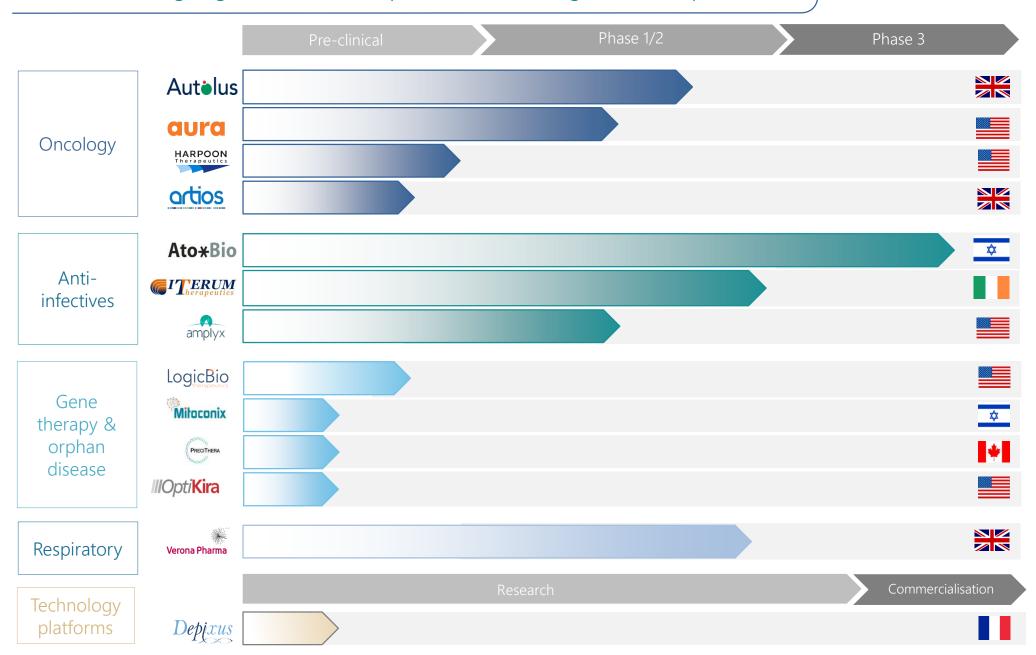


Portfolio Update

Diverse and innovative portfolio



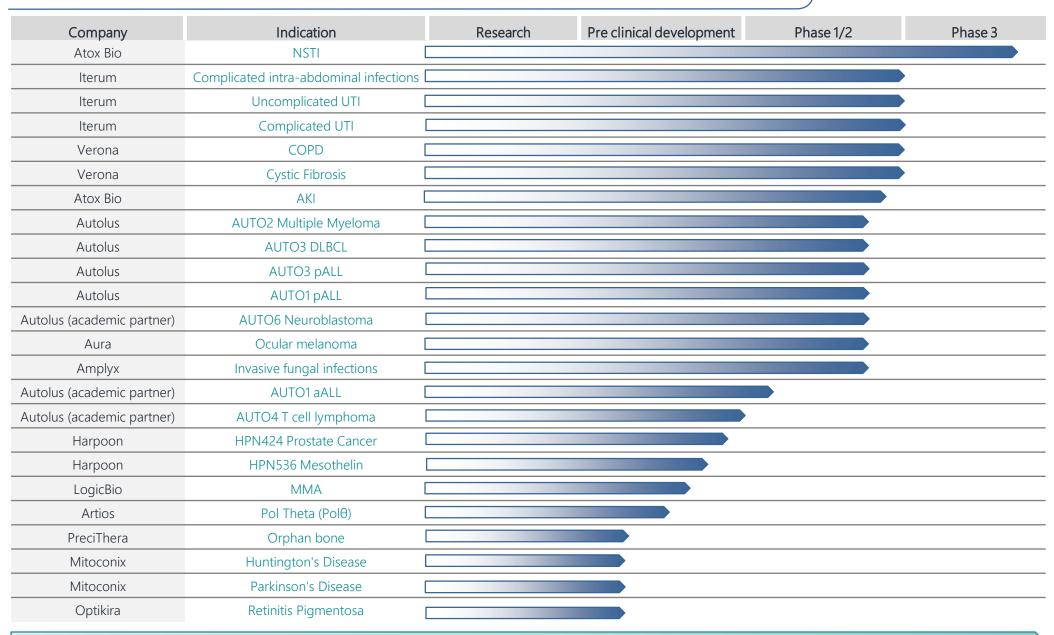
Invested in cutting edge life science companies across all stages of development



Extensive pipeline



Multiple expected catalysts; 15 clinical trials across the portfolio



Multiple undisclosed pre clinical programmes

Oncology portfolio

Active investment strategy driving long term value creation



Autolus

Developing next-generation, programmed T cell therapies for the treatment of cancer

- Oversubscribed \$150m IPO; 3 x return on investment to date
- Arix led £40m Series B enabling company to initiate first clinical trials and played a pivotal role in key new hires at the company
- Arix first invested when Autolus was valued at \$75m, market cap today of ~\$1bn
- 6 clinical trials initiated in 5 programmes, with further preclinical studies ongoing

Cash invested: £20.8m Current NAV: £64.2m



Next generation DNA Damage Response (DDR)

- Ex Kudos team; proven DDR team that discovered Lynparza
- Arix played a key role in the expansion of management team, including Pierre Legault as Chairman and Graeme Smith as CSO
- Currently raising a Series B investment round to fund the development of first-in-class DDR targeted cancer therapies through to the clinic.

Cash invested: £3.7m

NAV at cost: £3.7m

aura

Novel, selective treatment for ocular melanoma

- Arix co-led \$30m Series C
- Positive progression in Phase 1b/2; interim data shows signs of tumour regression
- Strong safety and efficacy data
- Granted Orphan Drug and Fast Track Designation by FDA

Cash invested: £2.5m

NAV at cost: £2.5m



Antibody-derived T-Cell Engaging Platform targeting solid tumours

- Arix co-led \$45m Series B
- Signed a research collaboration with Abbvie in 2017
- Expansion of management team
- Positive pre clinical data
- HPN424 Phase 1 Prostate Cancer trial due to start in 2H2018
- HPN536 Mesothelin trial due to start 1H2019

Cash invested: £8.4m*

Current NAV: £9.4m

Anti-infectives portfolio





Ato*Bio

Novel immunomodulators for acute, life threatening, conditions resulting from severe acute inflammation caused by severe infections

- Arix led \$30m Series F financing
- Continued momentum with lead product, Reltecimod in Phase 3 NSTI trial
- Positive Phase 2 NSTI data across multiple endpoints
- Commenced Phase 2 AKI trial
- Data from NSTI and AKI trials expected 2H2019
- FDA and EMA granted Reltecimod Orphan Drug status and Fast Track designation

Cash invested: £3.0m Current NAV: £3.1m



Developing novel anti-infectives aimed at combatting the global crisis of multi-drug resistant pathogens

- Arix led \$65m Series B financing
- \$87m IPO in May 2018 to fund three Phase 3 trials
- Phase 3 data from all three indications expected 2H2019
- Aiming to file NDA in 2H2019
- Differentiated lead product with significant revenue opportunity
- Strong IP & regulatory protection

Cash invested: £12.7m Current NAV: £8.3m



Novel small molecule therapy, APX001, for life threatening fungal infections

- Data from two Phase 1 studies of APX001 and five non-clinical trials show tolerability, safety and non-clinical efficacy
- FDA has granted orphan drug designation to APX001
- Phase 2 trial in invasive fungal infections starting in 2H2018
- Phase 2 data expected in 2019

Cash invested: £2.8m

NAV at cost: £2.8m

Gene therapy & orphan disease portfolio



Active investment strategy driving long term value creation



Gene therapy & editing for early-onset rare diseases

- Arix led a \$45m Series B
- Expansion of management team, including CFO, CBO, CSO, and COO
- Phase 1/2 gene therapy trial due to commence in 2019

Cash invested: £5.1m Current NAV: £4.9m



Developing disease-modifying therapeutics for neurodegenerative diseases

- Indications in Huntington's Disease (primary), Parkinson's Disease (Secondary)
- Ph.1 Huntington's trial start due to commence in 2019

Cash invested: £0.4m NAV at cost: £0.4m



Precision medicine for orphan bone diseases

- Arix co-led \$29M Series A financing
- Targeting multiple orphan bone diseases that cannot be treated via traditional protein replacement therapies
- Ph.1/2 orphan bone trial due to commence in 2019

Cash invested: £0.5m NAV at cost: £0.5m



Developing drugs that inhibit the unfolded protein response (UPR)

- Demonstrated the efficacy of molecules in a retinitis pigmentosa rat model
- Proof of concept also demonstrated in mouse models of diabetes;
 with ongoing proof of concept studies underway for ALS and IPF
- Clinical candidate selection in 2H2018

Cash invested: £1.3m NAV at cost: £1.3m

Respiratory & technology platforms







Clinical stage company focused on the development and commercialization of innovative prescription medicines to treat respiratory diseases with significant unmet medical needs

- Successfully listed on NASDAQ and raised \$80m
- Positive Phase 2 clinical data
- Significant market opportunity significant unmet medical need and large patient population
- Clear pathway to approval robust clinical data
- Strong potential for adoption and significant outlook for growth
- Phase 3 COPD study due to commence in 2019

Cash invested: £3.6m Current NAV: £3.7m



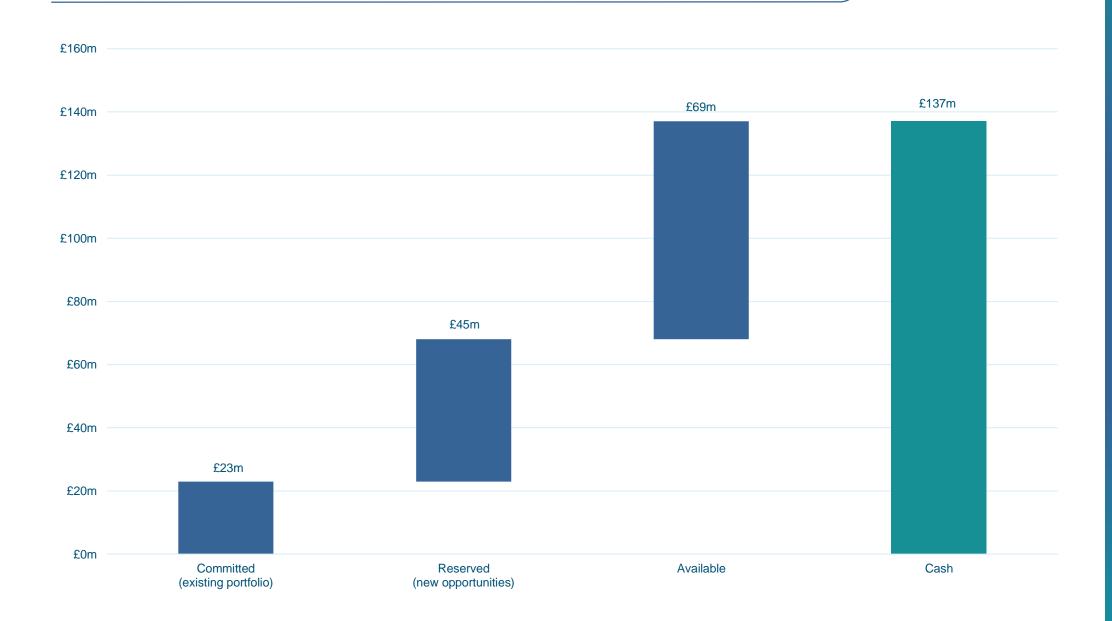
Completely novel approach for epigenomic sequencing & analysis

- Founded by John Berriman Founder and the first chairman of Solexa Ltd (now owned by Illumina Inc) the company which developed the DNA sequencing technology
- Developing SIMDEQ, a novel technology for complete analysis of DNA & RNA (nucleic acids)
- SIMDEQ has the power to significantly expand our understanding of genetics and open up new horizons in biomedicine
- Arix is the sole institutional investor

Cash invested: £1.3m Current NAV: £1.4m









Group Strategy

Strategy



Diversified investments and company creation in game changing life science technologies

VENTURE CAPITAL

COMPANY CREATION

VIPES

- Broad strategic approach to life science investing; we invest in seed stage companies, preclinical and clinical stage assets; private or public
- We partner with the most ambitious entrepreneurs to develop companies that aim to have a significant impact on patients lives
- We take an active management approach; adding value at board level through scientific and commercial expertise
- We build stakes to accelerate growth in our companies; reserving funds to back our winners and reduce risk
- Our permanent capital model allows us to take a longer term view than our non-listed peers; exiting when the optimum value is reached

Extensive global network





Pharmaceutical companies

Deep VC networks

Research accelerators

Universities

Direct biotech networks

Manager

Rich, renewable pipeline of opportunities

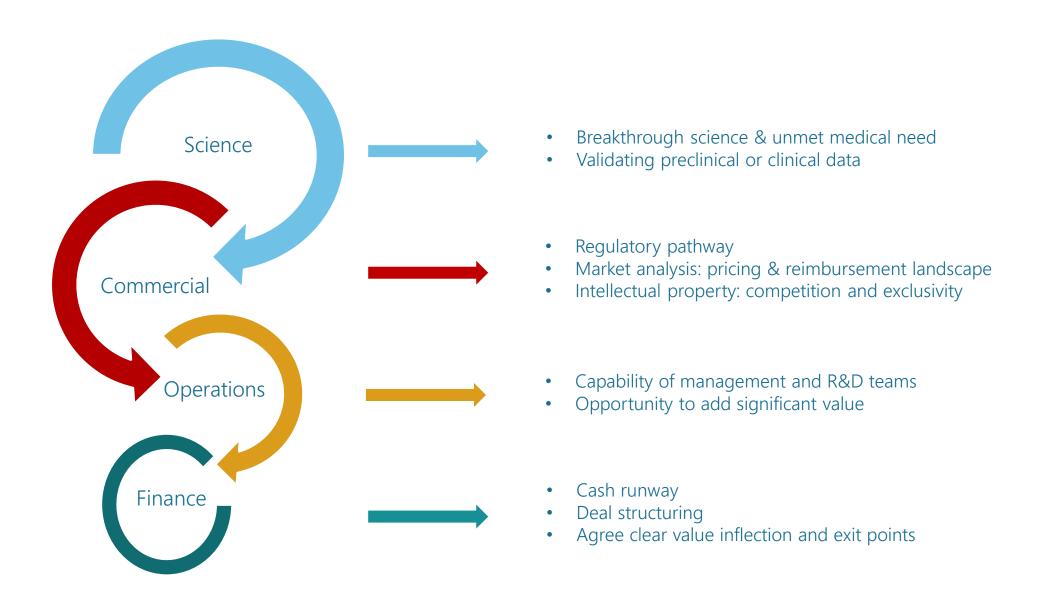
Transatlantic networks, with reach into Asia, Israel and Australia

1082 opportunities reviewed

Deep due diligence process



Detailed approach to identifying and verifying scientific and commercial potential





Company Outlook

Outlook

Multiple catalysts for further growth over next 18 months



- Group Businesses on track to deliver strong business and clinical development
- Multiple clinical milestones expected over the next
 18 months
- New investments, company creation and follow on capital in 2018
- Accelerating growth and building stakes in core portfolio as milestones are met
- NAV growing substantially and on track to deliver continued growth in 2H2018

Data expected from 10 clinical trials

12 new clinical trials due to commence

New investments and company creation

Follow on financing and business development in core portfolio



Appendices

Arix: a unique proposition





Permanent capital base

Longer term view than no listed peers; ability to support Group Businesses through all stages of development



Premium access to cutting-edge science

Access to high quality global networks and research accelerators, together with links to universities



Pharma partners

Partnering to build and develop new innovative technologies, utilising extensive R&D capabilities



Clear focus

Life science specialists with a focus on gene therapy, oncology and infectious diseases



Expertise

Proven multi-disciplinary leadership team with a strong track record of building and realising value



Unconstrained model

Unconstrained by institution, geography or stage of company development; ability to source the best life science innovation without restriction

Case study: Autolus



£64.2m

A clinical-stage, biopharmaceutical company developing next-generation, programmed T cell therapies for the treatment of cancer.

70

Completion of Nasdaq IPO

- Raised \$150m in an oversubscribed IPO
- Arix acquired additional shares, increasing equity stake to ~£64m;
 representing 3x return on £20.8m investment

6 clinical trials commenced in 5 programmes:

- AUTO2: dual-targeting CAR-T; APRIL in multiple myeloma, targeting independent antigens BCMA and TACI
- AUTO3: first CAR T cell therapy targeting CD19 and CD22 with independently acting CARs; AMELIA in pALL and ALEXANDER in adult DLBCL
- AUTO6: glycosphingolipid GD2-targeting programmed T cell product candidate in paediatric patients with neuroblastoma
- AUTO1: CD19 CAR; paediatric and adult ALL
- AUTO 4: TRBC1 CAR therapy AUTO5: TRBC2 CAR therapy. AUTO
 4/5 offers a unique approach to T cell Lymphoma

60 50 40 30 £20.1m 20 10 31 Dec 17 valuation Follow on investment Gain in the period 30 June 18 valuation

Next steps:

- Clinical data from AUTO2 and AUTO3
- AUTO6 NG Phase 1/2 trial initiation



£38.6m

Group Businesses at 30 June 2018



Interests held on Arix's balance sheet

	31 December 2017 Value £m	Net Investment in Period £m	Change in Valuation (including FX) £m	30 June 2018 Value £m	Fully Diluted Equity Interest %	Funding Committed, Not Yet Invested £m	Fully Diluted Equity Interest when Commitment Drawn
Autelus	20.1	5.5	38.6	64.2	7.9%	-	7.9%
artios	3.7	-	-	3.7	14.7%	1.4	14.9%
HARPOON Therapeutics	5.1	-	0.1	5.2	8.0%	4.2	12.3%
aura	2.5	-	-	2.5	5.3%	1.2	6.6%
[TERUM] herapeutics	5.7	6.7	(4.1)	8.3	7.4%	-	7.4%
amplyx	2.8	-	-	2.8	2.8%	1.8	3.8%
Ato *Bio	3.0	-	0.1	3.1	3.7%	3.0	6.4%
LogicBio	4.8	-	0.1	4.9	13.3%	2.7	15.4%
PRECITHERA	0.5	-	-	0.5	17.8%	5.4	23.4%
IIIOpti <mark>Kira</mark>	1.3	-	-	1.3	26.0%	-	26.0%
Miłoconix	0.4	-	-	0.4	2.1%	2.7	9.0%
Verona Pharma	2.9	-	0.8	3.7	2.5%	-	2.5%
Depixus	1.1	0.3	-	1.4	18.6%	0.1	19.2%
Group Businesses	53.9	12.5	35.6	102.0	-	22.5	-
Other Interests	17.4	1.9	0.5	19.8	-	-	-
Total	71.3	14.4	36.1	121.8	-	22.5	-

Value and ownership % of direct interests



	Value of Arix interest*	Equity ownership**
Autelus	£64.2m	7.9%
artios	£5.1m	14.9%
HARPOON Therapeutics	£9.4m	12.3%
aura	£3.7m	6.6%
CITERUM herapeutics	£8.3m	7.4%
amplyx	£4.6m	3.8%
Ato*Bio	£6.1m	6.4%
LogicBio	£7.6m	15.4%
PRECITHERA	£5.9m	23.4%
Miłoconix	£3.1m	9.0%
///Opti <mark>Kira</mark>	£1.3m	26.0%
Verona Pharma	£3.7m	2.5%
Depixus	£1.5m	19.2%

^{*} Value of Arix interest for all companies as at 30 June 2018 based on the assumption of total invested and committed capital per latest funding round, plus any valuation movements as per International Private Equity and Venture Capital Valuation Guidelines ** % equity ownership figures indicate Arix's fully diluted equity stake in the corresponding Group Business once all committed capital has been invested.

Macro trends support market opportunity

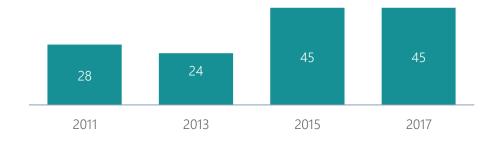


Scientific innovation driving increasing numbers of new therapies and technologies

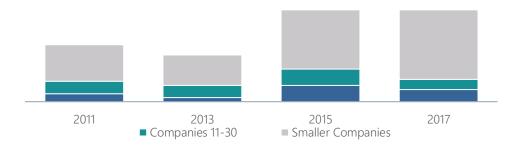
Innovation continues to be driven by smaller companies

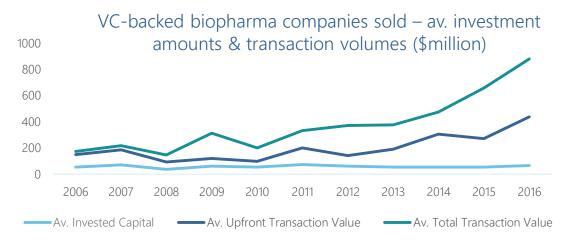
Premium prices paid for innovation

New molecular entity approvals by the FDA¹



Number of drug approvals by originator² company size

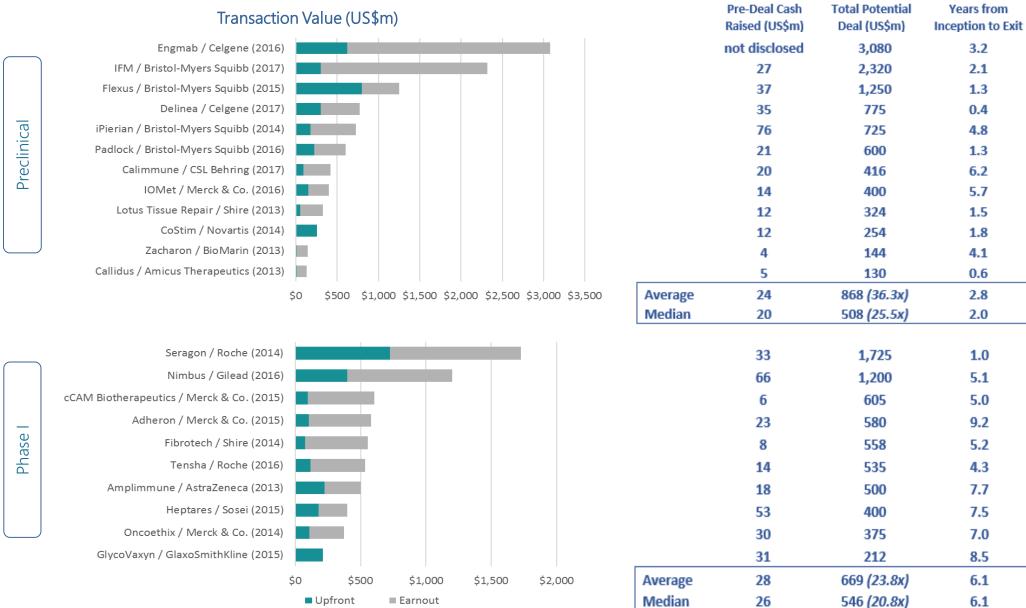




Market opportunity

Premium price paid for innovation





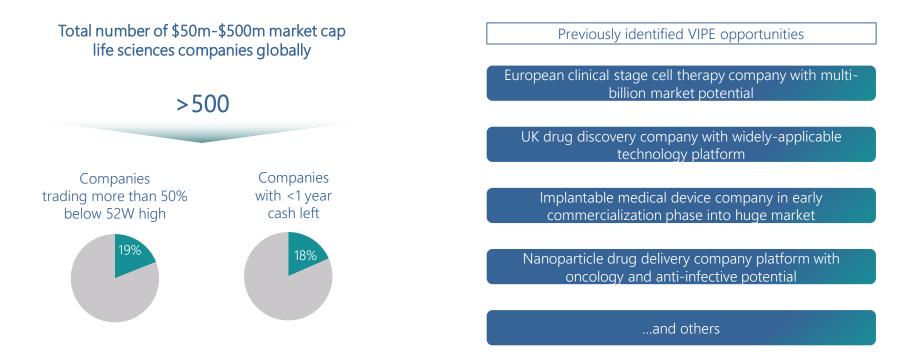
Source: Press releases, Pitchbook.

Public Market Opportunities





- There are many undervalued small public companies running out of cash
- Some outstanding technologies are hidden in "orphaned" companies
- Recapitalising and rebuilding such companies can lead to significant investment returns
- Potential for generating near-term returns



Source: Jefferies International

Proactive sector research



White papers drive rigorous understanding and identify specific opportunities

Recent focus areas: anti-infectives, oncology and gene therapy



Objective: rigorous sector evaluation to develop a detailed understanding of a sector

Contents: memorialise findings that becomes a "living document"

- Market opportunity / unmet need
- Current competition / standard of care
- Clinical development approaches
- Regulatory environment
- Pipeline / new technologies
- Commercialisation (pricing, reimbursement)
- Strategic interest / valuations

Results: list of companies / technologies worth immediate diligence or longer-term monitoring; e.g. Iterum, Harpoon, LogicBio

Research accelerators







- Newly formed partnership focused on advancing oncology and anti-infective discoveries from Fred Hutch labs into new companies
- Joint partnership with Evotec, which provides extended due diligence capability



- "First look" agreement with the Max Planck Society LDC
- c.100 research institutions in Germany
- Employs > 22,000 people and receives funding of €1.8bn p.a.



- \$300m initiative to advance discoveries by Harrington scholars
- Provides access into leading US research institutions and universities
- Arix has "first look" and "first option" rights over a number of early stage oncology opportunities

US: sourcing innovation





- Extensive relationships in the industry and VC community in the US
- Dealflow and US Group Companies supported by a team in NYC
- Innovative science also sourced through BioMotiv with links to the Harrington Scholars program
- Arix is a BioMotiv shareholder and has committed \$25m
- Arix can invest in businesses via BioMotiv, alongside BioMotiv, or independently of BioMotiv
- Opportunities pre-qualified at point of review by BioMotiv following Harrington screening process

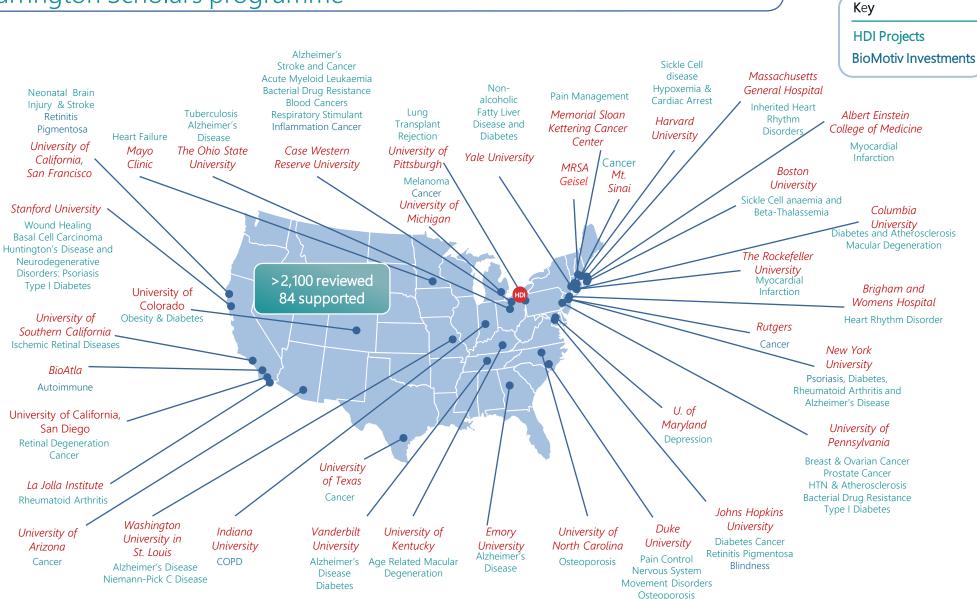




Extensive reach into US academic centres

Harrington Scholars programme





Alzheimer's Disease